	U.S. Department of		ME CONTRACTOR	SNX-02	28		771	
Info	rmation Disclosure S	tatement by		Applicat	nt: Erik W. Ra	smussen '	•	
1010				Filed: A	ugust 10, 2001	l Gr	oup: 20	644
	(Use several sheet	s if necessary	/)					
				nts		γ		
	Document No.	Date	Name		<u> </u>			
Α	4,589,137	5/13/86				94		
В	4,628,529	12/9/86	Borth et al.		381	94	7/1/85	;
С	4,750,207	6/7/88	Gebert et al.		381	68.4	3/31/8	6
D	4,759,071	7/19/88	Heide		381	68.4	8/14/8	6
E	4,837,832	6/6/89	Fanshel		381	68.4	10/20/	87
F	5,097,510	3/17/92	Graupe		381	47	11/7/8	9
G	5,170,434	12/8/92	Anderson		381	68	6/28/9	1
Н	5,285,502	2/8/94	Walton et al.		381	94	3/31/9	2
I	5,289,544	2/22/94	Franklin		381	68.1	12/31/	91
J	5,412,735	5/2/95	Engebretson et al.		381	94	2/27/9	2
K	5,511,128	4/23/96	Lindemann		381	92	1/21/9	4
L		7/22/97	Lindemann et al.		381	68.2	9/17/9	3
M		8/7/01	Backgaard	<u>·</u>	381	313	8/3/99)
N		11/8/01	Hou	~	381	92	3/20/0	1
1		····	Foreign Documents	<u> </u>	<u> </u>			
,		· _ · · · ·			la au			slatio
					Class	Subclass	Yes	No
<u> </u>	<u> </u>							
P					PEC			
Q					nEC.	CATA		
R	WO 00/19770	4/6/00	International (PCT)		MAR	8 2009		
S	WO 01/69968	9/20/01	International (PCT)	1				<u> </u>
T	WO 01/72085	9/27/01	International (PCT)	·	rechnology	Center 2600		L_
	Other Deci	mante (Incl	ıding Author Title F	lata Parti	inent Pages of	· \	•	
Τυ	Greenberg, Julie E. e	t al., "Evaluat	tion of an adaptive bea	mforming	method for he	aring aids", J.	Acoust.	Soc.
<u> </u>	Am. 91:3, pages 1662	2-1676 (Marc	ch 1992)					
V					ne with Real-T	ime Processing	g in the	
W	Kollmeier Birger et	ocana Audio	e multiband dynamic o	compressio	on and noise rea	duction for bin	aural he	arino
1 ''	aids", Journal of Reh	abilitation Re	esearch and Developm	ent, Vol. 3	0: 1, pages 82-	94 (1993)		
		1 "Speech D	rocessing for Hearing	Aids: No	ise Reduction N	Motivated by M	lodels o	f
х	Wittkop, Thomas et a							
X			- acta acustica, Vol. 8			·		
	Info A B C D E F G H I J K L M N O P Q R S T	Document No.	U.S. Department of Commerce Patent and Trademark Office	U.S. Department of Commerce	U.S. Department of Commerce Patent and Trademark Office	U.S. Department of Commerce Patent and Trademark Office Applicant	Serial No. O9/927, Applicant: Erik W. Rasmussen O9/927, O9/927,	Applicant: Erik W. Rasmussen Subclass Filing

Page <u>1</u> of 1

Atty. Docket No. Serial 1 Form PTO 1449 09/927,770CT 2 3 2003 SNX-028 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office Applicant: Erik W. Rasmussen Technology Center 2600 Information Disclosure Statement by Applicant Filed: 8/10/01 (Use several sheets if necessary) **U.S. Patent Documents** Filing Date Class Subclass Init. Document No. Date Name 179 J. F. Kaiser ī 03/13/61 A 3,057,960 10/09/62 BTP 5,602,962 Kellermann 395 2.35 09/07/94 B 02/11/97 $\overline{\mathsf{c}}$ 5,694,474 12/02/97 Ngo et al. 381 66 09/18/95 D 5.836,790 11/17/98 Barnett 439 620 10/10/96 E 5,978,490 11/02/99 Choi et al. 381 92 12/24/97 02/08/00 381 94.7 F 6,023,514 Strandberg 12/22/97 G 6,157,403 12/05/00 Nagata 348 171 08/04/97 H 6.160,757 12/12/00 Tager 367 119 08/20/98 6.317.703 11/13/01 Linsker 702 190 10/17/97 I BTF **Foreign Documents** Translation Init. Document No. Date Class Subclass Yes No Country J 0 795 851 09/17/97 Europe G10L 3 00 X BIP K 0 831 458 03/25/98 G10L 5 02 X Europe 12/09/98 H04R 3 00 X L 0 883 325 Europe 0 942 628 H04R 25 00 $\overline{\mathbf{x}}$ M 09/15/99 Europe X 04/11/01 H04R 3 00 N 1 091 615 Europe-195 40 795 05/07/97 04R 1 0 Germany 40 X P 95/34983 12/21/95 PCT H04M 1 19 X PCT $\overline{\mathbf{x}}$ 99/45741 09/10/99 H04R Q 01/10169 02/08/01 PCT X R H04R 25 00 BTP Other Documents (Including Author, Title, Date, Pertinent Pages, etc.) Hanson et al., "Cascade Sample Matrix Inversion Arrays", 1990, IEEE, pp. 36.5.1 -36.5.5 (in French) S BTP T Kellermann, Walter, "A Self-Steering Digital Microphone Array", 1991, IEEE, pp. 3581-3584. Ū Lleida et al., "Robust Continuous Speech Recognition System Based on a Microphone Array", 1998, IEEE, pp. 241-244. Mahmoudi, Djarnila, "Speech Source Localization Using A Multi-Resolution Technique", 1998, IEEE, pp. $\overline{\mathbf{w}}$ Zhang et al., "Adaptive Beamforming By Microphone Arrays", 1995, IEEE, pp. 163-167. X International Search Report based on PCT/EP02/09022, dated September 8, 2003. International Search Report based on PCT/EP02/09031, dated September 8, 2003. 877

Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Date Considered

7/17/06

Examiner

Form PT (Rev. 2-2	Patent and Trademark Office			Atty. Docket No. SNX-028		Serial No. 09/927,77					
PE.	Information Disclosure Statement by Applicant			Applicant	Applicant: Erik W. Rasmussen						
334024	2 E	(Use several she			Filed:	08/10/01	Group: Unk	nown			
	-11-7			U.S. Patent Docu	ments						
FALENT S	4	Document No.	Date	Name		Class	Subclass	Filing	Date		
GTP	A	6,549,630 B1	04/15/03	Bobisuthi		381	94.7	02/04	/00		
		·									
							REC	EIVF	-n -		
	-	ļ		ļ		 					
	 			<u> </u>		-	JUN	3 20	<u>03</u>		
				· ·		<u> </u>	- Technology	Center	2600		
	1				•						
	1						·				
	1										
	1										
				Foreign Docum	ents						
									slation		
Init.	<u> </u>	Document No.	Date	Country		Class	Subclass	Yes	No		
								ļ	ļ		
	1	<u></u>		<u> </u>				<u> </u>	<u></u>		
		Other Doc	cuments (Inclu	ding Author, Tit	le, Date, Per	tinent Pages	, etc.)				
	ļ								· 		
	ļ										
			·			т					
Examine	رنگ	2.3				Date Cons	7/17/0	Db			
	r: Initi	al if citation consider nance and not consider					09; Draw line thr	ough cit	ation		

Form P1 (Rev. 2-		U.S. Department Patent and Tradem		;	SNX-0		Serial No. 09/927,77	l	
0	(Mi)	rmation Disclosure	Statement by	y Applicant	Applica	int: Erik W.	Rasmussen		
CON 977		(Use several she			Filed:	8/10/01	Group: 26	544	
Init.	NA STAN	(00000		U.S. Patent Doc	uments				
Init.		Document No.	Date	Name		Class	Subclass	Filing	Date
	-	-						 	
							RECE	IVE	ED.
	<u> </u>						1 VON	9 200	3
							Technology	Cente	r 2600
	<u> </u>								
		•		Foreign Docur	nents	•	•		
T-:A	1	[D N-	Dete			Class	C1		slation
Init.	A	Document No. 1 065 909 A2	Date 1/3/02	Country Europe		Class H04R 3	Subclass 00	Yes	No
BTP	1	1 003 303 A2	173702	Latope	· · · · · · · · · · · · · · · · · · ·	110410 3		A	<u> </u>
									
	ļ				-				ļ.,
									X
	 								
	1								 .
				luding Author, Ti					
BTP	В	International Searc	ch Report base	ed on PCT/EP02/09	9030, dated Se	ptember 22, 2	2003.		
	-								
	 								
Examine	<u> </u>	<u> </u>				Date Cons	idered	 .	
	1	2.2-					סן דיוד		
		al if citation consider nance and not consider						ough cit	ation

Form PTO		U.S. Department of Patent and Tradem			Atty. Docket No. Serial No. 09/927,771				
lan.		mation Disclosure		A nnlicant	Applicant: Erik W. Rasmussen				
14 2 2 L	NAME OF THE PERSON NAME OF THE P	(Use several she			Filed:	8/10/01	Group: 20	544	
ATENIA T	III.	.,		U.S. Patent Doc	uments				
Init.		Document No.	Date	Name		Class	Subclass	Filing	Date
 									
							REC	EIV	EC.
							FEB	0 2 2	304
							 Technolo	y Ge n	ter 26
	•			Foreign Docur	nents				
Init.		Document No.	Date	Country		Class	Subclass	Yes	No No
ВТР	A	03/015459 A3	20.02.03	PCT		H04R 3	00	Х	
GNP	В	03/015460 A3	20.02.03	PCT		H04R 3	00	Х	
	·					 .	-		
	1	Other Do	cuments (Inclu	ding Author, Ti	tle, Date, Pe	rtinent Pages,	etc.)	L.,	L
ear	C	Written Opinion b	ased on PCT/E	P02/09031, dated	November 2	7, 2003.			
9 7P	D	Written Opinion b	ased on PCT/E	P02/09030, dated	December 3	, 2003			
Examiner		2 0 0				Date Consi	idered		
_	رار	al if citation consider	and subseless ==	not aitation in in			ורוך		ation

OIPE
·· \$
JAN 1 0 2006 S
A. S.
NOMEMAN DAY 1440

TUENE						ocket No.	Serial No			
(Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				SNX-0028 09/927,771						
					Applica					
	Infor	mation Disclosure S	tatement by A	pplicant	Erik Wi		-			
	_	(Use several sheet	s if necessary)	<u> </u>	Filed: August	10, 2001	Group: 2644			
	_			J.S. Patent Docum	ients					
Init.		Document No.	Date	Name		Class	Subclass	Filing	Date	
ВТР	Α	5,706,394	01/06/1998	Wynn						
BTP	В	6,351,529	02/26/2002	Holeva						
			,	·						
							, , ,			
									-	
				-						
			,							
			•	Foreign Docume	nts					
									slation	
Init.		Document No.	Date	Country		Class	Subclass	Yes	No	
	ļ									
			<u> </u>					 		
	L		<u> </u>		 	<u> </u>		<u> </u>	L	
	,								•	
							· · · · · · · · · · · · · · · · · · ·			
						_	-w			
Examiner		2 2 2	-			Date Consi	ן דוןד	06		
Examiner	Initia	I if citation considered	d, whether or r	ot citation is in co	nformance w	ith MPEP 60	9; Draw line th	rough cit	ation	
if not in co	ontorm	ance and not consider	ed. Include a c	copy of this form w	ith the next	communication	on to applicant.			

Serial No. Atty. Docket No. Form PTO 1449 09/927,771 (Rev. 2-32) U.S. Department of Commerce SNX-0028 Patent and Trademark Office Applicant: Erik W. Rasmussen Information Disclosure Statement by Applicant Filed: Group: August 10, 2001 2644 (Use several sheets if necessary) **U.S. Patent Documents** Filing Date Class Subclass Date Document No. Name Init. 370 2/19/92 Chu 32.1 5,263,019 11/16/93 Α BTP 370 32.1 2/21/91 В 5,305,307 4/19/94 Chu 7/18/94 395 2.35 Seki et al. С 5,677,987 10/14/97 381 68.2 10/17/96 10/21/97 Hansen D 5,680,467 12/8/94 71.3 11/18/97 Ohki et al. 381 5,689,572 Ε BTP **Foreign Documents** Translation Class Subclass Yes Init. Document No. Date Country No Other Documents (Including Author, Title, Date, Pertinent Pages, etc.) Date Considered Examiner 7/17/06 Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

Form PTO 1449 (Rev. 2-32) U.S. Department of Commerce Patent and Trademark Office				Atty. Do SNX-02		Serial No. Not yet assigned.				
Information Disclosure Statement by Applicant					Applicant: Erik W. Rasmussen					
		(Use several she	ets if necessary)	Filed:	Group:			C 90 3	
				U.S. Patent Docume	ents				יי	
Init.		Document No.	Date	Name		Class	Subclass	Filing	Date	
BTP	A	4,589,137	05/13/86	Miller	<u>-</u>	381	94	01/03	/85	
	В	4,802,227	01/31/89	Elko et al.		381	. 92	04/03	/87	
	С	5,347,496	09/13/94	Clark et al.		367	140	08/11	/93	
	D	5,473,684	12/05/95	Bartlett et al.		379	387	04/21	/94	
	E	5,473,701	12/05/95	Cezanne et al.		381	92	11/05	/93	
	F	5,553,134	09/03/96	Allen et al.		379	387	05/18	/95	
	G	5,648,936	07/15/97	Clark et al.		367	13	06/30	/95	
	Н	5,651,071	07/22/97	Lindemann et al.		381	68.2	09/17	/93	
BTP	ı	5,825,898	10/20/98	Marash		381	92	06/27	/96	
Init.	1	Document No.	Date	Foreign Document	13	Class	Subclass	Tran Yes	nslation No	
	J	0 679 044 A2	10/25/95	Europe		H04R	00	XX	110	
BTP	K	2 202 942	10/25/93	Great Britan		G01H 3	10	XX	ļ	
	L	9-146443	06/06/97	Japan Japan		G03H 3	00	1~~	XX	
	М	11-18191	01/22/99	Japan		H04R 3	00	- 	XX	
	N	2000-47699	02/18/00	Japan		G10L 21	00	_	XX	
	0	WO 95/08248	03/23/95	PCT		· H04R 25	00	XX	1^^	
.	P	WO 97/29614	08/14/97	PCT		H04R 3	00	XX	 	
	Q	WO 97/50186	12/31/97	PCT		H04B 1	12 .	XX		
	R	WO 98/47227	10/22/98	PCT		H03H 21	00	XX	ļ	
	S	WO 99/04598	01/28/99	PCT		H04R 3	00	XX		
	T	WO 99/09786	02/25/99	PCT		H04R 3	00	XX	 	
- 	U	WO 99/39497	08/05/99	PCT		H04M 9	08	XX		
+-	V	WO 99/52211	10/14/99	PCT		H03H 21	00	XX	 	
-	W	WO 99/53336	10/21/99	PCT		G01S 5	02	XX	+-	
_	X	WO 00/33634	06/15/00	PCT		None	None	+**	XX	
BIP	Y	WO 00/41436	07/13/00	PCT	- -	H04R 3	00	-	XX	

Page	2	of	2
------	---	----	---

Form PT	0 144	9	Atty. Docket No.	Serial No.			
(Rev. 2-3	2)	U.S. Department of Commerce Patent and Trademark Office	SNX-028	Not yet assigned.			
	Info	rmation Disclosure Statement by Applicant	Applicant: Erik W. Ra	asmussen			
		(Use several sheets if necessary)	Filed: Group:				
		Other Documents (Including Author, Title, D					
8TP	Z	Greenberg, Julie E., et al., "Evaluation of an Adaptive Be Society of America, Vol. 91, No. 3 (March 1992): pgs. 10	aptive Beamforming Method for Hearing Aids"; J. Acoustical 2): pgs. 1662-1676.				
	AA	Kollmeier, B., et al., "Binaural Noise-Reduction Hearing Frequency Domain"; Scand Audiol (1993); Suppl. 38: pg					
	AB	Kollmeier, Birger, et al., "Real-time Multiband Dynamic Hearing Aids"; Journal of Rehabilitation Research and D					
GTP	AC	Wittkop, Thomas, et al., "Speech Processing for Hearing Binaural Interaction"; ACUSTICA – acta acustica, Vol. 8	Aids: Noise Reduction	Motivated by Models of			
Examiner		3 2.2	Date Consid	ered 7/17/06			
		al if citation considered, whether or not citation is in confo nance and not considered. Include a copy of this form with					